

Title (en)

METHOD FOR PRODUCING COLLAGEN PEPTIDES FROM BONES, AND PRODUCED COLLAGEN PEPTIDES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KOLLAGENPEPTIDEN AUS KNOCHEN, UND HERGESTELLTE KOLLAGENPEPTIDE

Title (fr)

PROCÉDÉ DE PRODUCTION DE PEPTIDES DE COLLAGÈNE À PARTIR D'OS, ET PEPTIDES DE COLLAGÈNE PRODUITS

Publication

**EP 4017272 A1 20220629 (DE)**

Application

**EP 20785702 A 20200928**

Priority

- DE 102019130196 A 20191108
- EP 2020077092 W 20200928

Abstract (en)

[origin: WO2021089243A1] The present invention relates to a method for producing collagen peptides from bones, comprising the following steps: a) providing bones from vertebrates; b) mechanically comminuting the bones to a particle size of less than 1.000 µm, preferably less than 500 µm, more preferably less than 300 µm, at a temperature of less than 70°C during comminution; c) heating the comminuted bones in an aqueous suspension to a temperature above 100°C, preferably above 120°C, more preferably above 130°C, for a period of 1 to 30 min, preferably 2 to 10 min, more preferably 4 to 8 min; d) adding one or more proteases to the suspension to obtain an aqueous solution of collagen peptides; and e) separating the aqueous solution of collagen peptides from the comminuted bones. The method does not comprise maceration of the bones with an acid or liming of the bones with a base, and bones provided in step a) have not been subjected to maceration and liming. The invention further relates to collagen peptides produced by this method.

IPC 8 full level

**A23J 1/10** (2006.01); **A23J 3/06** (2006.01); **A23J 3/34** (2006.01); **A23L 33/17** (2016.01); **A23L 33/18** (2016.01); **A61K 38/01** (2006.01); **C07K 14/46** (2006.01); **C07K 14/78** (2006.01); **C12P 21/06** (2006.01)

CPC (source: EP US)

**A23J 1/10** (2013.01 - EP US); **A23J 3/06** (2013.01 - EP US); **A23J 3/342** (2013.01 - EP US); **A23L 33/17** (2016.07 - EP); **A23L 33/18** (2016.07 - EP); **C07K 14/78** (2013.01 - EP); **C12Y 304/21062** (2013.01 - EP); **A61K 38/00** (2013.01 - EP)

Citation (search report)

See references of WO 2021089243A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102019130196 A1 20210512**; AU 2020378186 A1 20220526; BR 112022008115 A2 20220719; CN 114845560 A 20220802; EP 4017272 A1 20220629; JP 2023502010 A 20230120; MX 2022005337 A 20220526; US 2022256886 A1 20220818; WO 2021089243 A1 20210514; ZA 202205099 B 20231129

DOCDB simple family (application)

**DE 102019130196 A 20191108**; AU 2020378186 A 20200928; BR 112022008115 A 20200928; CN 202080077345 A 20200928; EP 2020077092 W 20200928; EP 20785702 A 20200928; JP 2022526475 A 20200928; MX 2022005337 A 20200928; US 202217736430 A 20220504; ZA 202205099 A 20220509